BRUHAT BENGALURU MAHANAGARA PALIKE

BYATARAYANAPURA

NAME OF WORK: Improvements to Roads and Drains of Coffee Board Layout in Ward no: 07 Bytarayanapura.

	Job no:-					Est .Cost Rs.		300.00	Lakhs
Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
1	**Removing and resetting of footpath slab**								
	For Covering Slabs	Sqm							
	11th Cross From Pragati Condiments (W1023)								
	LHS		1	327.70	0.90		294.93		
	RHS		1	327.70	0.90		294.93		
	4th Main Road, 11th Cross (W0790)								
	LHS		1	120.00	0.90		108.00		
	RHS		1	120.00	0.90		108.00		
	5th Main Road ,8th Cross Towards North (W0786)								
	LHS		1	81.30	0.90		73.17		
	RHS		1	81.30	0.90		73.17		
	5th Main Road ,8th Cross Towards South (W0786)								
	LHS		1	205.90	0.90		185.31		
	Cross Roads		-1	18.00			-18.00		
	RHS		1	205.90	0.90		185.31		
	Cross Roads		-1	27.00			-27.00		
	6th Main road 11th cross (W0784)								
	LHS		1	91.80	0.90		82.62		
	RHS		1	91.80	0.90		82.62		
	9th Cross Road (W1019)								
	LHS		1	76.60	0.90		68.94		
	RHS		1	76.60	0.90		68.94		
	4th Main Road ,4th Cross (W0788)								
	LHS		1	166.50	0.90		149.85		
	RHS		1	166.50	0.90		149.85		
	7th Cross Road (W1013)								
	LHS		1	284.70	0.90		256.23		
	Cross Roads		-1	48.00			-48.00		
	RHS		1	284.70	0.90		256.23		
	Cross Roads		-1	9.00			-9.00		
	11th Main Road (W0760)								
	LHS		1	229.60	0.90		206.64		
	Cross Roads		-1	9.40			-9.40		
	RHS		1	229.60	0.90		206.64		
	10th Main Road (W0762)								
	LHS		1	182.50	0.90		164.25		
	RHS		1	182.50	0.90		164.25		
	4th Cross Road (W1003)								
	LHS		1	357.50	0.90		321.75		
	RHS		1	357.50	0.90		321.75		
	4th main road, 5th cross (W1007)								
	LHS		1	354.60	0.90		319.14		
	RHS		1	354.60	0.90		319.14		
	8th Cross Road (W1015)								
	LHS		1	387.70	0.90		348.93		
	RHS		1	387.70	0.90		348.93		

b no:-					Est .Cost Rs.		300.00	Lakhs
Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
2nd Main Road balaji layout (W0736)								
LHS		1	208.50	0.90		187.65		
Cross Road		-1	6.00			-6.00		
RHS		1	208.50	0.90		187.65		
Cross Road		-1	7.00			-7.00		
5th Main Road, 1st Cross (W0993)								
LHS		1	88.00	0.90		79.20		
RHS		1	88.00	0.90		79.20		
5th Main Road Cycle Shop Road (W0993)								
LHS		1	34.00	0.90		30.60		
RHS		1	34.00	0.90		30.60		
From SMS Light Appartment Road (W0995)								
LHS		1	124.90	0.90		112.41		
RHS		1	124.90	0.90		112.41		
						5854.84		
						965.40		
						4889.44	**246.70**	**1206223.00**
2	**Earth work excavation by manual means for drains,canals and similar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. Page No. 7/ Item No. 1.4.1/ PWD SR 2021-22 (Vol-I)**								
Desilting	Cum							
11th Cross From Pragati Condiments (W1023)								
LHS		1	327.70	0.60	0.45	88.48		
RHS		1	327.70	0.60	0.45	88.48		
4th Main Road, 11th Cross (W0790)								
LHS		1	120.00	0.60	0.45	32.40		
RHS		1	120.00	0.60	0.45	32.40		
5th Main Road ,8th Cross Towards North (W0786)								
LHS		1	81.30	0.60	0.45	21.95		
RHS		1	81.30	0.60	0.45	21.95		
5th Main Road ,8th Cross Towards South (W0786)								
LHS		1	205.90	0.60	0.45	55.59		
Cross Roads		-1	18.00	0.60	0.45	-4.86		
RHS		1	205.90	0.60	0.45	55.59		
Cross Roads		-1	27.00	0.60	0.45	-7.29		
6th Main road 11th cross (W0784)								
LHS		1	91.80	0.60	0.45	24.79		
RHS		1	91.80	0.60	0.45	24.79		
9th Cross Road (W1019)								
LHS		1	76.60	0.60	0.45	20.68		
RHS		1	76.60	0.60	0.30	13.79		
4th Main Road ,4th Cross (W0788)								
LHS		1	166.50	0.60	0.45	44.96		
RHS		1	166.50	0.60	0.45	44.96		

Sub no:-					Est .Cost Rs.		300.00	Lakhs
Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
7th Cross Road (W1013)								
LHS		1	284.70	0.60	0.45	76.87		
Cross Roads		-1	48.00	0.60	0.45	-12.96		
RHS		1	284.70	0.60	0.45	76.87		
Cross Roads		-1	9.00	0.60	0.45	-2.43		
11th Main Road (W0760)								
LHS		1	229.60	0.60	0.45	61.99		
Cross Roads		-1	9.40	0.60	0.45	-2.54		
RHS		1	229.60	0.60	0.45	61.99		
10th Main Road (W0762)								
LHS		1	182.50	0.60	0.45	49.28		
RHS		1	182.50	0.60	0.45	49.28		
4th Cross Road (W1003)								
LHS		1	357.50	0.60	0.45	96.53		
RHS		1	357.50	0.60	0.45	96.53		
4th main road, 5th cross (W1007)								
LHS		1	354.60	0.60	0.45	95.74		
RHS		1	354.60	0.60	0.45	95.74		
8th Cross Road (W1015)								
LHS		1	387.70	0.60	0.45	104.68		
RHS		1	387.70	0.60	0.45	104.68		
2nd Main Road balaji layout (W0736)								
LHS		1	208.50	0.60	0.45	56.30		
Cross Road		-1	6.00	0.60	0.45	-1.62		
RHS		1	208.50	0.60	0.45	56.30		
Cross Road		-1	7.00	0.60	0.45	-1.89		
5th Main Road, 1st Cross (W0993)								
LHS		1	88.00	0.60	0.45	23.76		
RHS		1	88.00	0.60	0.50	26.40		
5th Main Road Cycle Shop Road (W0993)								
LHS		1	30.00	0.60	0.50	9.00		
		1	4.00	0.60	0.40	0.96		
RHS		1	34.00	0.60	0.50	10.20		
From SMS Light Appartment Road (W0995)								
LHS		1	124.90	0.60	0.55	41.22		
RHS		1	60.00	0.60	0.55	19.80		
		1	64.90	0.60	0.45	17.52		
						1768.82	**351.05**	**620945.00**
3	**Providing precast slab of 100 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge Data Rate**							
Covering Slab for Drain In Coffee Board Layout	Sqm	1	1177.00	0.90		**1059.30**		
						1059.30	**2175.19**	**2304178.00**
4	**Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work ((Vol-I, P.No-8, I No-1.12 of PWD SR 2021-22)**								

						Est .Cost Rs.	300.00	Lakhs
	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
	Earthwork Mechanical Means	Cum							
	11th Cross From Pragati Condiments (W1023)		1	327.70	8.00	0.25	655.40		
	4th Main Road, 11th Cross (W0790)		1	120.00	6.00	0.25	180.00		
	5th Main Road ,8th Cross Towards North (W0786)		1	81.30	8.00	0.25	162.60		
	5th Main Road ,8th Cross Towards South (W0786)		1	205.90	8.00	0.25	411.80		
	6th Main road 11th cross (W0784)		1	91.80	8.00	0.25	183.60		
	9th Cross Road (W1019)		1	76.60	6.86	0.25	131.37		
	4th Main Road ,4th Cross (W0788)		1	166.50	7.50	0.25	312.19		
	7th Cross Road (W1013)		1	284.70	7.00	0.25	498.23		
	11th Main Road (W0760)		1	229.60	6.50	0.25	373.10		
	10th Main Road (W0762)		1	182.50	8.00	0.25	365.00		
	4th Cross Road (W1003)		1	357.50	8.00	0.25	715.00		
	4th main road, 5th cross (W1007)		1	354.60	7.00	0.25	620.55		
	8th Cross Road (W1015)		1	387.70	7.00	0.25	678.48		
	2nd Main Road balaji layout (W0736)		1	208.50	7.50	0.25	390.94		
	5th Main Road, 1st Cross (W0993)		1	88.00	8.00	0.25	176.00		
	5th Main Road Cycle Shop Road (W0993)		1	34.00	8.00	0.25	68.00		
	From SMS Light Appartment Road (W0995)		1	124.90	7.50	0.25	234.19		
							6156.43		
				25% for Profile Correction			**1539.11**		
							1539.11	**75.06**	**115525.00**
5	**Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density. Page No. 24/ Item No. 4.27/ PWD SR 2021-22 (Vol-III).**								
	Wet Mix	Cum							
	11th Cross From Pragati Condiments (W1023)		1	327.70	8.00	0.23	602.97		
	4th Main Road, 11th Cross (W0790)		1	120.00	6.00	0.23	165.60		
	5th Main Road ,8th Cross Towards North (W0786)		1	81.30	8.00	0.23	149.59		
	5th Main Road ,8th Cross Towards South (W0786)		1	205.90	8.00	0.23	378.86		
	6th Main road 11th cross (W0784)		1	91.80	8.00	0.23	168.91		
	9th Cross Road (W1019)		1	76.60	6.86	0.23	120.86		
	4th Main Road ,4th Cross (W0788)		1	166.50	7.50	0.23	287.21		
	7th Cross Road (W1013)		1	284.70	7.00	0.23	458.37		
	11th Main Road (W0760)		1	229.60	6.50	0.23	343.25		
	10th Main Road (W0762)		1	182.50	8.00	0.23	335.80		
	4th Cross Road (W1003)		1	357.50	8.00	0.23	657.80		

						Est .Cost Rs.	300.00	Lakhs
	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
	4th main road, 5th cross (W1007)		1	354.60	7.00	0.23	570.91		
	8th Cross Road (W1015)		1	387.70	7.00	0.23	624.20		
	2nd Main Road balaji layout (W0736)		1	208.50	7.50	0.23	359.66		
	5th Main Road, 1st Cross (W0993)		1	88.00	8.00	0.23	161.92		
	5th Main Road Cycle Shop Road (W0993)		1	34.00	8.00	0.23	62.56		
	From SMS Light Appartment Road (W0995)		1	124.90	7.50	0.23	215.45		
							5663.92		
				25% for Profile Correction			**1415.99**		
							1415.99	**2764.54**	**3914562.00**
6	**Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means. (P.No.29 It.No.5.1, PWD SR 2021-22 (Vol-III))**								
	Prime Coat	Cum							
	11th Cross From Pragati Condiments (W1023)		1	327.70	8.00		2621.60		
	4th Main Road, 11th Cross (W0790)		1	120.00	6.00		720.00		
	5th Main Road ,8th Cross Towards North (W0786)		1	81.30	8.00		650.40		
	5th Main Road ,8th Cross Towards South (W0786)		1	205.90	8.00		1647.20		
	6th Main road 11th cross (W0784)		1	91.80	8.00		734.40		
	9th Cross Road (W1019)		1	76.60	6.86		525.48		
	4th Main Road ,4th Cross (W0788)		1	166.50	7.50		1248.75		
	7th Cross Road (W1013)		1	284.70	7.00		1992.90		
	11th Main Road (W0760)		1	229.60	6.50		1492.40		
	10th Main Road (W0762)		1	182.50	8.00		1460.00		
	4th Cross Road (W1003)		1	357.50	8.00		2860.00		
	4th main road, 5th cross (W1007)		1	354.60	7.00		2482.20		
	8th Cross Road (W1015)		1	387.70	7.00		2713.90		
	2nd Main Road balaji layout (W0736)		1	208.50	7.50		1563.75		
	5th Main Road, 1st Cross (W0993)		1	88.00	8.00		704.00		
	5th Main Road Cycle Shop Road (W0993)		1	34.00	8.00		272.00		
	From SMS Light Appartment Road (W0995)		1	124.90	7.50		936.75		
							24625.73		
				25% for Profile Correction			**6132.79**		
							6132.79	**48.50**	**297440.00**

o no:-					Est .Cost Rs.	300.00	Lakhs
Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
7 Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.20 kg/m2 on the prepared bituminous surface cleaned with mechanical broom (P.No.29 It.No.5.3, PWD SR 2021-22 (Vol-III))								
Tack coat	Sqm							
11th Cross From Pragati Condiments (W1023)		1	327.70	8.00		2621.60		
4th Main Road, 11th Cross (W0790)		1	120.00	6.00		720.00		
5th Main Road ,8th Cross Towards North (W0786)		1	81.30	8.00		650.40		
5th Main Road ,8th Cross Towards South (W0786)		1	205.90	8.00		1647.20		
6th Main road 11th cross (W0784)		1	91.80	8.00		734.40		
9th Cross Road (W1019)		1	76.60	6.86		525.48		
4th Main Road ,4th Cross (W0788)		1	166.50	7.50		1248.75		
7th Cross Road (W1013)		1	284.70	7.00		1992.90		
11th Main Road (W0760)		1	229.60	6.50		1492.40		
10th Main Road (W0762)		1	182.50	8.00		1460.00		
4th Cross Road (W1003)		1	357.50	8.00		2860.00		
4th main road, 5th cross (W1007)		1	354.60	7.00		2482.20		
8th Cross Road (W1015)		1	387.70	7.00		2713.90		
2nd Main Road balaji layout (W0736)		1	208.50	7.50		1563.75		
5th Main Road, 1st Cross (W0993)		1	88.00	8.00		704.00		
5th Main Road Cycle Shop Road (W0993)		1	34.00	8.00		272.00		
From SMS Light Appartment Road (W0995)		1	124.90	7.50		936.75		
Cross Rosd		1	60.00	7.73		463.80		
						25089.53	**13.86**	**347740.00**
8 Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 505 complete in all respects.(Grade-II) (Pg:33, It.No-5.12 C PWD SR:2021-22 (Vol-III))								
Dense Graded Bituminous Mecadam (DBM)	Cum							
11th Cross From Pragati Condiments (W1023)		1	327.70	8.00	0.05	131.08		
4th Main Road, 11th Cross (W0790)		1	120.00	6.00	0.05	36.00		
5th Main Road ,8th Cross Towards North (W0786)		1	81.30	8.00	0.05	32.52		
5th Main Road ,8th Cross Towards South (W0786)		1	205.90	8.00	0.05	82.36		
6th Main road 11th cross (W0784)		1	91.80	8.00	0.05	36.72		
9th Cross Road (W1019)		1	76.60	6.86	0.05	26.27		
4th Main Road ,4th Cross (W0788)		1	166.50	7.50	0.05	62.44		
7th Cross Road (W1013)		1	284.70	7.00	0.05	99.65		
11th Main Road (W0760)		1	229.60	6.50	0.05	74.62		
10th Main Road (W0762)		1	182.50	8.00	0.05	73.00		
4th Cross Road (W1003)		1	357.50	8.00	0.05	143.00		

Description of Items	Unit	No	L (M)	B (M)	D (M)	Est .Cost Rs. Qty	300.00 Rate	Lakhs Amount
4th main road, 5th cross (W1007)		1	354.60	7.00	0.05	124.11		
8th Cross Road (W1015)		1	387.70	7.00	0.05	135.70		
2nd Main Road balaji layout (W0736)		1	208.50	7.50	0.05	78.19		
5th Main Road, 1st Cross (W0993)		1	88.00	8.00	0.05	35.20		
5th Main Road Cycle Shop Road (W0993)		1	34.00	8.00	0.05	13.60		
From SMS Light Appartment Road (W0995)		1	124.90	7.50	0.05	46.84		
						1231.29		
			25% for Profile Correction			**307.82**		
						307.82	**10553.53**	**3248604.00**
9	**Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using Crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 per cent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respec (Pg:36, It.No-5.16 C PWD SR:2021-22 (Vol-III))**								
	Bituminous Concrete (BC)	Cum							
	11th Cross From Pragati Condiments (W1023)		1	327.70	8.00	0.04	104.86		
	4th Main Road, 11th Cross (W0790)		1	120.00	6.00	0.04	28.80		
	5th Main Road ,8th Cross Towards North (W0786)		1	81.30	8.00	0.04	26.02		
	5th Main Road ,8th Cross Towards South (W0786)		1	205.90	8.00	0.04	65.89		
	6th Main road 11th cross (W0784)		1	91.80	8.00	0.04	29.38		
	9th Cross Road (W1019)		1	76.60	6.86	0.04	21.02		
	4th Main Road ,4th Cross (W0788)		1	166.50	7.50	0.04	49.95		
	7th Cross Road (W1013)		1	284.70	7.00	0.04	79.72		
	11th Main Road (W0760)		1	229.60	6.50	0.04	59.70		
	10th Main Road (W0762)		1	182.50	8.00	0.04	58.40		
	4th Cross Road (W1003)		1	357.50	8.00	0.04	114.40		
	4th main road, 5th cross (W1007)		1	354.60	7.00	0.04	99.29		
	8th Cross Road (W1015)		1	387.70	7.00	0.04	108.56		

no:-					Est .Cost Rs.		300.00	Lakhs
Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
2nd Main Road balaji layout (W0736)		1	208.50	7.50	0.04	62.55		
5th Main Road, 1st Cross (W0993)		1	88.00	8.00	0.04	28.16		
5th Main Road Cycle Shop Road (W0993)		1	34.00	8.00	0.04	10.88		
From SMS Light Appartment Road (W0995)		1	124.90	7.50	0.04	37.47		
Cross Rosd		1	60.00	7.73	0.04	18.55		
						1003.6	**12253.37**	**12297249.00**

10 **Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/ m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes. Page No. 57/ Item No. 8.15 PWD SR 2021-22 (Vol-III).**

Road Marking	Sqm							
11th Cross From Pragati Condiments (W1023)		2	327.70	0.10		65.54		
4th Main Road, 11th Cross (W0790)		2	120.00	0.10		24.00		
5th Main Road ,8th Cross Towards North (W0786)		2	81.30	0.10		16.26		
5th Main Road ,8th Cross Towards South (W0786)		2	205.90	0.10		41.18		
6th Main road 11th cross (W0784)		2	91.80	0.10		18.36		
9th Cross Road (W1019)		2	76.60	0.10		15.32		
4th Main Road ,4th Cross (W0788)		2	166.50	0.10		33.30		
7th Cross Road (W1013)		2	284.70	0.10		56.94		
11th Main Road (W0760)		2	229.60	0.10		45.92		
10th Main Road (W0762)		2	182.50	0.10		36.50		
4th Cross Road (W1003)		2	357.50	0.10		71.50		
4th main road, 5th cross (W1007)		2	354.60	0.10		70.92		
8th Cross Road (W1015)		2	387.70	0.10		77.54		
2nd Main Road balaji layout (W0736)		2	208.50	0.10		41.70		
5th Main Road, 1st Cross (W0993)		2	88.00	0.10		17.60		
5th Main Road Cycle Shop Road (W0993)		2	34.00	0.10		6.80		
From SMS Light Appartment Road (W0995)		2	124.90	0.10		24.98		
						664.36	**551.98**	**366713.00**

11 **Cost of Haulage Excluding Loading and Unloading Taking output 25 t load and lead 10 km = 250 t.km (Vol-III) Page No.3, Item No.1.4C of PWD SR 2021-22**

Cost of Haulage	Mtr							
						1768.82		
Qty frm Item No-2						**1539.11**		
Qty frm Item No-4						**4234.2**	**46.19**	**195575.00**
								24914754.00
Sub Total								**4484655.72**
GST 18.0%								

	Job no:-					Est .Cost Rs.		300.00	Lakhs
Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
	For DPR and PMC Charges 2.0%								**600000.00**
	Sub Total								**29993490.56**
	Miscellaneous								**6509.44**
	Total								**30000000.00**

CERTIFICATE

1 The Work spot has been inspected and the work found to be necessary

2 The Estimate is prepared as per the PWD SR 2021-22 (Vol-I and Vol-III)

3 The Provision made in estimate are adequate and essential

4 This area comes under BBMP limits.

Assistant Engineer
Ward No:07
BBMP

Asst Executive Engineer
Sahakaranagara Sub-Division
BBMP

Executive Engineer
Byatarayanapura Division
BBMP